

ABSTRACT

The present invention provides an isolated (*trans,cis*)-10,12-linoleate isomerase and its nucleic acid and amino acid sequences. The present invention also provides a method for producing conjugated linoleic acid or conjugated linolenic acid (CLA), or derivatives thereof, from an oil using an immobilized cell and/or an isolated linoleate isomerase. The present invention also provides an isolated lipase-like protein and its nucleic acid and amino acid sequences. The present invention also provides an isolated acetyltransferase-like enzyme and its nucleic acid and amino acid sequences.